

Ethylammonium chloride

Inchi:	InChI=1S/C2H7N.ClH/c1-2-3;/h2-3H2,1H3;1H
InchiKey:	XWBDWHCCBGMXKG-UHFFFAOYSA-N
Formula:	C2H8ClN
SMILES:	CCN.Cl
Mol. weight [g/mol]:	81.55

Physical Properties

Property code	Value	Unit	Source
af	0.1362		Cheméo Relay (1.0)
gf	97.67	kJ/mol	Cheméo Relay (1.0, beta)
hf	-114.46	kJ/mol	Cheméo Relay (1.0)
hvap	32.95	kJ/mol	Cheméo Relay (1.0)
ie	10.46	eV	Cheméo Relay (1.0)
pc	6080.36	kPa	Cheméo Relay (1.0, beta)
tb	309.30	K	Cheméo Relay (1.0)
tc	401.77	K	Cheméo Relay (1.0)
tf	409.08	K	Cheméo Relay (1.0)
vc	0.161	m ³ /kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	34.30	kJ/mol	431.00	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C557664&Units=SI>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Densities and viscosities of, and NH₃ solubilities in deep eutectic solvents composed of ethylamine hydrochloride and urea: <https://www.doi.org/10.1016/j.jct.2019.105883>
NH₃ Solubilities and Physical Properties of Ethylamine Hydrochloride Plus Urea Deep Eutectic Solvents: <https://www.doi.org/10.1021/acs.jced.9b00246>

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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